

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A video signal processor comprising:
 - a memory that utilizes a first clock signal for writing a video data signal to the memory and a second clock signal for reading a video data signal from the memory;
 - a delay unit, including plural delay elements, for delaying the second clock signal;
 - a selector for selecting a clock that is most synchronized with a reference signal inputted from outside, from among clocks that have been delayed by using the respective delay elements, respectively of the delay unit, and outputsoutputting phase information of the selected clock;
 - an interpolation factor output unit for converting the phase information into an interpolation factor, and outputting the interpolation factor; and
 - an interpolator for interpolating the video data signal read from the memory in accordance with the second clock signal using the interpolation factor.

2. (Currently Amended) A video signal processor comprising:
 - a memory that utilizes a first clock signal for writing a video data signal to the memory and a second clock signal for reading a video data signal from the memory;
 - a delay unit, including plural delay elements having that can vary respective variable delay valueselements, for delaying the second clock signal by one period of the second clock signal;
 - a phase comparator for comparing phases between a clock that is obtained by delaying a focus clock in the second clock signal by one clock using the delay unit, and a clock that is one clock later in the second clock signal than the focus clock;
 - a controller for controlling the respective variable delay values of the delay elements of the delay unit on the basis of a phase difference detected by the phase comparator;
 - a selector for selecting a clock that is most synchronized with a reference signal inputted from outside, from among clocks that have been delayed by the respective delay elements, respectively of the delay unit, and outputting phase information of the selected clock;
 - an interpolation factor output unit for converting the phase information into an interpolation factor, and outputting the interpolation factor; and

an interpolator for interpolating the video data signal read from the memory in accordance with the second clock signal using the interpolation factor.

3. (Currently Amended) A video signal processor comprising:

a memory that utilizes a first clock signal for writing or reading a video data signal to the memory or reading a video data signal from the memory;

a delay unit, including plural delay elements, for delaying the first clock signal;

a selector for selecting a clock that is most synchronized with a reference signal inputted from outside, from among clocks that have been delayed by using the respective delay elements, respectively of the delay unit, and outputting phase information of the selected clock;

an interpolation factor output unit for converting the phase information into an interpolation factor, and outputting the interpolation factor; and

an interpolator for interpolating the video data signal read from the memory in accordance with the first clock signal using the interpolation factor.

4. (Currently Amended) A video signal processor comprising:

a memory that utilizes a first clock signal for writing or reading a video data signal to the memory or reading a video data signal from the memory;

a delay unit, including plural delay elements having that can vary respective variable delay values, for delaying the first clock signal by one period of the first clock signal;

a phase comparator for comparing phases between a clock that is obtained by delaying a focus clock in the first clock signal by one clock using the delay unit, and a clock that is one clock later in the first clock signal than the focus clock;

a controller for controlling the respective variable delay values of the delay elements of the delay unit on the basis of a phase difference detected by the phase comparator;

a selector for selecting a clock that is most synchronized with a reference signal inputted from outside, from among clocks that have been delayed by the delay elements, respectively of the delay unit, and outputting phase information of the selected clock;

an interpolation factor output unit for converting the phase information into an interpolation

factor, and outputting the interpolation factor; and

an interpolator for ~~interpolation~~interpolating the video data signal read from the memory in accordance with the first clock signal using the interpolation factor.

5. (Currently Amended) A video signal processing method ~~comprising~~including the steps of:
 - writing a video data signal into a memory in accordance with a first clock signal;
 - delaying a second clock signal using plural delay elements;
 - selecting a clock that is most synchronized with a reference signal inputted from outside, from among clocks that have been delayed by the delay elements, ~~respectively~~, and generating phase information of the selected clock;
 - converting the phase information into an interpolation factor; and
 - interpolating the video data signal read from the memory in accordance with the second clock signal using the interpolation factor.